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CENTRAL FAX CENTER

APR 11 2007

Drawing Amendments

There are no amendments to the drawings.

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Remarks

The Office Action 01/11/2007 rejected claims 1, 2, 5-26, 28-31, 34-43, and 45-48 under 35 U.S.C. §102(e) as being anticipated by U.S. Patent Application Publication No. 2003/0159053 of C. Fauble, et al. (hereafter referred to as Fauble). Finally, the Office Action rejected claims 3, 4, 27, 32, 33 and 44 under 35 U.S.C. §103 (a) as being unpatentable over Fauble in view of U.S. Patent Application Publication No. 2004/0117632 of P.D. Arling, et al. (hereafter referred to as Arling).

Claims 1, 7, 9, 10, 11, 13, 26, 31, 36, 38, 39, 40, 44, 45, and 48 are being amended. Claims 4-6, 8, 12, 21-25, 28, 29, 33-35, 37, 41, 46, and 47 are being canceled.

Rejection of Claims 1, 2, 3, 7, 31, 32, 36, 42, and 43 under 35 U.S.C. §102(e)

Amended claim 1 incorporates the material from canceled claim 6 and recites:

A method for protecting data generated by a keyboard, comprising the steps of:
 reading data from a keypad of the keyboard;
 reading an encryption seed from a device reader connected to the keyboard;
 encrypting the read data using the encryption seed; and
 transmitting the encrypted data from the keyboard to a computer.

In rejecting claim 6, the Office Action on page 3 stated "Regarding claims 6 and 46, Fauble discloses the method of

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claim 1 wherein the step of encrypting comprises the step of using an encryption seed; and reading the encryption seed from a device reader connected to the keyboard/smart card reader (FIG. 6, #72)". Block 72 of FIG. 6 is a smart card reader, but Paragraphs 50 and 51 clearly explain that this smart card stores login information for logging the user into computing device 42 and not the encryption seed.

In view of the foregoing, applicants respectfully submit that amended claim 1 is patentable over Fauble under 35 U.S.C. 102(e). Dependent claims 2, 3, and 7 are directly dependent on amended claim 1 and are patentable for at least the same reasons as amended claim 1. Dependent claim 3 was rejected under 35 U.S.C. 103(a) as unpatentable over Fauble in view of Arling. However, Arling was only cited for disclosing a wireless link; hence claim 3 is still patentable for at least the same reasons as amended claim 1.

Claims 31, 32, and 36 are patentable for the same reasons as claims 1, 3, and 7.

Claims 41 and 42 are patentable for the same reasons as claims 1 and 2.

Rejection of Claims 9 and 38 under 35 U.S.C. §102(e)

Amended claim 9 incorporates material from original claims 1 and 8 and recites:

A method for protecting data generated by a keyboard, comprising the steps of:
generating a start signal by at least one of a special key on keyboard or multi-actuation of a number of keys on the keypad;
reading data from a keypad of the keyboard;

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encrypting the read data in response to the start signal; and transmitting the encrypted data from the keyboard to a computer.

In rejecting claim 9, the Office Action on page 3 states that Fauble discloses the step of receiving a start signal/key depression of claim 8 in Paragraph [0034] and the step of generating the start signal by at least one of a special key on keyboard, multi-actuation of a number of keys on the keypad, the compute or server/control button of claim 9 in Paragraph [0029]. Amended claim 9 no longer recites that the start signal can be generated by "the computer, or a server". Paragraphs [0029] and [0034] disclose that the keyboard's output may be encrypted but do not disclose that a start signal to signal the start of encryption is generated by the keyboard. As disclosed in Paragraph [0031] the second computing device 44 in conjunction with the first computing device 42 starts the encryption process.

In view of the foregoing, applicants respectfully submit that amended claim 9 is patentable over Fauble under 35 U.S.C. 102(e).

Claim 38 is patentable for reasons similar to claim 9.

Claim 44 is patentable for the same reasons as claim 9.

Rejection of Claims 10, 11, 39 and 40 under 35 U.S.C. §102(e)

Amended claim 10 incorporates material from original claim 1 and recites:

A method for protecting data generated by a keyboard, comprising the steps of:

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reading data from a keypad of the keyboard;
encrypting the read data in response to the start signal; and
transmitting the encrypted data from the keyboard to a
computer
receiving a stop signal;
stopping the encryption of the read data and transmission
of the encrypted data from the keyboard to the computer.

In rejecting claim 10, the Office Action on page 4 states "Fauble discloses the method of claim 1 wherein the step of encrypting comprises the step of receiving a stop signal that stops the encryption/key release (§[0034])." Applicants have carefully studied Paragraph [0034] and find no disclosure of the reception of a stop signal and the stopping of the encryption. Applicants respectfully request that the Examiner point out where in Paragraph [0034] "reception of a stop signal and the stopping of the encryption" is disclosed.

In view of the foregoing, applicants respectfully submit that amended claim 10 is patentable over Fauble under 35 U.S.C. 102(e). Dependent claim 11 is directly dependent on amended claim 10 and is patentable for at least the same reasons as amended claim 10.

Claims 39 and 40 are patentable for the same reasons as claims 10 and 11.

Claims 45 and 48 are patentable for the same reasons as claims 10 and 11.

Rejection of Claims 13-20 under 35 U.S.C. §102(e)

Amended claim 13 recites:

A method for protecting by a computer data generated by a keyboard where the keyboard is directly connected to the computer, comprising the steps of:

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receiving encrypted data from the keyboard by the computer; and
decrypting the encrypted data by the computer.

In rejecting claim 13, the Office Action on page 4 references Paragraph [0034] as disclosing the steps recited in amended claim 13. Paragraph [0034] discloses that the keyboard console 50 is directly connected to the first computing device 42 which transfers information received from keyboard console 50 to the second computing device 44. Lines 14-23 of Paragraph [0034] state that it is the second computing device 44 that decrypts the information from the keyboard console 50. However, amended claim 13 clearly recites that the computer that decrypts the encrypted data is directly connected to the keyboard. Clearly from FIG. 7, keyboard console 50 of Faule is not directly connected to bank server 84 which performs the decryption but rather is directly connected to user computing device 82.

In view of the foregoing, applicants respectfully submit that amended claim 13 is patentable over Faule under 35 U.S.C. 102(e). Dependent claims 14-20 are directly dependent on amended claim 13 and are patentable for at least the same reasons as amended claim 13.

Rejection of Claims 26 under 35 U.S.C. §102(e)

Amended claim 26 incorporates material from canceled claim 28 and recites:

A keyboard for encrypting data before transmission to a computer directly connected to the keyboard via a link, comprising:

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an interface connected to the link;
a memory;
a keypad for generating the data;
a device reader for reading a directly connected device to
obtain a seed for an encryption routine;
a processor for encrypting using the seed the generated
data by execution of the encryption routine stored in the memory;
and
transmitting the encrypted data to the computer via the
interface and link.

In rejecting claim 28, the Office Action on page 7 stated "Fauble discloses the keyboard of claim 26 comprises a device reader for reading a device to obtain a seed for the encryption routine (FIG. 6, #72)". Block 72 of FIG. 6 is a smart card reader, but Paragraphs 50 and 51 clearly explain that this smart card stores login information for logging the user into computing device 42 and not the encryption seed.

In view of the foregoing, applicants respectfully submit that amended claim 26 is patentable over Fauble under 35 U.S.C. 102(e). Dependent claims 27 and 30 are directly dependent on amended claim 26 and are patentable for at least the same reasons as amended claim 26. Dependent claim 27 was rejected under 35 U.S.C. 103(a) as unpatentable over Fauble in view of Arling. However, Arling was only cited for disclosing a wireless link; hence claim 27 is still patentable for at least the same reasons as amended claim 26.

Summary

In view of the foregoing, applicant respectfully requests consideration of amended claims 1, 7, 9, 10, 11, 13, 26, 31, 36, 38, 39, 40, 44, 45, and 48,

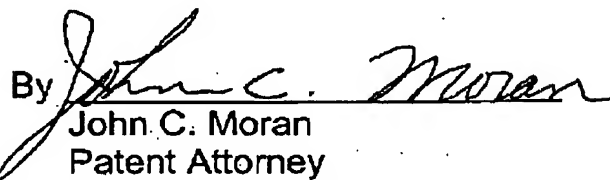
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reconsideration of remaining original claims, as presently in the application, and allowance of these claims.

Although the foregoing is believed to be dispositive of the issues in the application, if the Examiner believes that a telephone interview would advance the prosecution, the Examiner is invited to call applicants' attorney at the telephone number listed below.

Respectfully,

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By 
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